In the event that you should require service for your Nikon RIFLESCOPE, in case of U.S.A. market, please send it directly to:
Nikon Scope Service
841 Apollo Street, Suite 100
El Segundo, CA. 90245-4721
1-800-Nikon SV.
In case of outside U.S.A. please bring it to dealer from which you purchased it.

Manufacturer: **NIKON VISION CO., LTD.**
3-25, Futaba 1-chome, Shinagawa-ku, Tokyo 142-0043, Japan
Tel:+81-3-3788-7697 **Fax:**+81-3-3788-7698

Printed in Japan (506B) 72-1Y/1E

Riflescope MONARCH X

2.5-10x44 SF
2.5-10x44 SF IL
4-16x50 SF

Instruction manual **E**

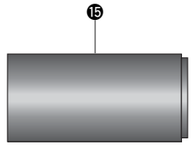
Congratulations on your choice of a Nikon RIFLESCOPE. Your new scope is the finest example of Nikon's rugged and durable construction and precision bright optics; important qualities for a serious shooter's riflescope.
Whether you use your scope for hunting or for target shooting, the procedure for mounting is identical. You should acquire a set of high quality steel mounting rings which have a diameter of 30 mm. Follow the ring manufacturer's instructions for mounting procedures. After mounting the scope on your rifle, follow the procedures for reticle alignment.

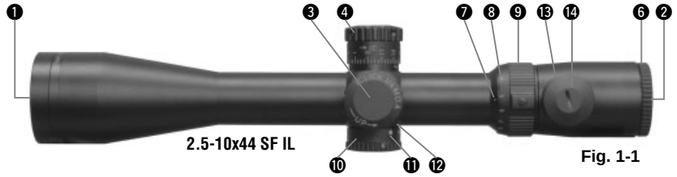
Caution
(1) Do not look at the sun through the riflescope. It will permanently damage your eye. This precaution applies to all optical devices such as cameras and binoculars.
(2) The riflescope is effectively sealed against moisture and dust. You may use your scope safely either in the rain or in dusty climates. To preserve the appearance of the scope, we suggest that it be dried and cleaned prior to storage. Use a soft cloth for cleaning metal surfaces and use photographic lens tissue to clean the scope's lenses.

When setting the reticle for hunting, you should determine your standard range and then adjust the reticle based upon that target distance. For targets which vary from that standard distance you may simply adjust the position of the reticle in relation to your target, or you may wish to use the procedure for trajectory compensation. It's up to your personal preference.
We hope that you will enjoy your new Nikon RIFLESCOPE for many years to come. Enjoy using it, and above all, always follow safe shooting procedures!

ITEM SUPPLIED

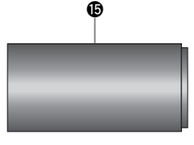
Body.....1pc.
Eyepiece cap, Objective cap .....1pair.
Hood.....1pc.
Battery (3V Lithium battery : CR2032).....1pc.
(Dual illuminated Reticle model only)
Allen wrench .....1pc.

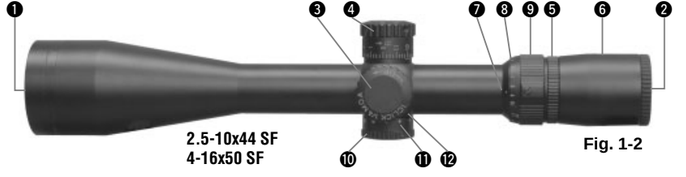




2.5-10x44 SF IL

Fig. 1-1





2.5-10x44 SF
4-16x50 SF

Fig. 1-2

1. *Objective Lens*
2. *Eyepiece Lens*
3. *Elevation Adjustment*
4. *Windage Adjustment*
5. *Eyepiece Lock Ring*
6. *Eyepiece Adjustment*
7. *Power Index Dot*
8. *Power Scale*
9. *Power Selector Ring*
10. *Side Focus Adjustment Ring*
11. *Side Focus Distance Mark*
12. *Distance Scale Index*
13. *Rheostat Intensity Dial*
14. *Battery Compartment Cover*
15. *Hood*

2. Specifications

Model		2.5-10x44 SF	2.5-10x44 SF IL	4-16x50 SF
Actual Magnification		2.5-10X		4-16X
Objective Diameter	(mm)	44		50
	(in)	1.73		1.97
Exit Pupil	(mm)	4.4		3.1
	(in)	0.17		0.12
Eye Relief	(mm)	88.8-93.9		88.8-93.9
	(in)	3.5-3.7		3.5-3.7
Battery		–	3-Volts Lithium CR2032	–
Reticle Intensity Adjustment		–	6 position (OFF to 5) for Green color and Red color	–
Field of View at 100yds.	(m)	12.19-3.05		7.62-1.92
	(ft)	40-10		25-6.3
Tube Diameter	(mm)	30		30
	(in)	1.18		1.18

Model		2.5-10x44 SF	2.5-10x44 SF IL	4-16x50 SF
Objective Tube Diameter	(mm)	52		58
	(in)	2.05		2.29
Length	(mm)	352		375
	(in)	13.88		14.78
Weight	(g)	655	700	720
	(oz)	23.1	24.7	25.4
Adjustment Graduation	* (moa)	1 click=1/4Moa		1 click=1/4Moa
Maximum Internal. Adjustment (Elevation & Windage)	* (moa)	80		50
Parallax Settings	(m)	at least 45.72-∞		at least 45.72-∞
	(yds)	at least 50-∞		at least 50-∞
Outside Diameter of Eyepiece	(mm)	43		43
	(in)	1.69		1.69
Construction		WATER PROOF Nitorogen Gas		

* moa = minute of angle : Deviation is 27,8mm at 100m (1in. at 100 yds/25.4mm at 91.44m)

3. Instructions

(1) Battery

CAUTION: When installing batteries, make sure the firearm is unloaded. Use safe firearm handling practices at all time.

Your Nikon Monarch X 2.5-10x44 SF Dual Illuminated Reticle is powered by one 3V lithium battery (CR2032 or equivalent). When your reticle grows dim or not light at all, you need to replace the battery.

How to replace battery.

1. Hold the rheostat intensity dial tightly and turn the cover with coin counter clockwise.
2. Take out the old battery and put one 3V Lithium Battery into the compartment.Be sure (+) side to be up.
3. Put the cover back and turn it clockwise with coin until the cover in firmly secured.
4. Turn the rheostat intensity dial to the desired color (red or green) and intensity (OFF to 5 : 6 steps).

(2) Focusing

❶Look through the eyepiece with your eye positioned about 10cm (4 in) away from the eyepiece lens (Fig. 3-1), and you will see the Nikoplex reticle (Fig. 3-2) or Milliradian Dot reticle (Fig. 3-3).
Be sure your eye is positioned within proper alignment and proper eye relief otherwise the view will "black out".

❷Point the objective end of the scope at the sky (Do not point at the sun) or at a plain unpatterned wall.
Loosen the lock ring. (Non-illuminated Reticle model)
Turn the eyepiece adjustment counter-clockwise and then turn it clockwise until the reticle appears sharp.

(Non-illuminated Reticle model)

❸Finally, without moving the eyepiece adjustment, turn the eyepiece lock ring as Fig. 3-4 to end so that the eyepiece adjustment will be firmly locked.

The lock ring must be firmly tightened to ensure an air-tight seal.

Non illuminated Reticle model ❶ Lock Ring ❷ Eyepiece Adjustment ❸ Eye Relief

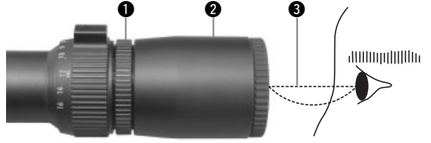
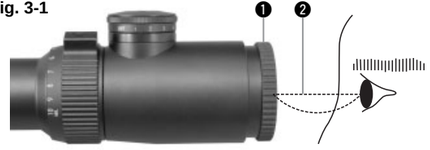


Fig. 3-2
Nikoplex Reticle

Fig. 3-3
Miliradian Dot Reticle

Fig. 3-1

Illuminated Reticle model
❶ Eyepiece Adjustment ❷ Eye Relief



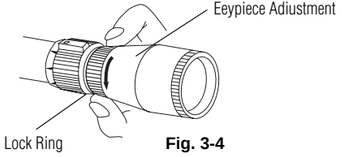


Fig. 3-4

(3) Magnification

●The riflescope 2.5-10x44 SF have a variable magnification from 2.5 to 10x, 4-16x50 SF from 4 to 16x.
To change powers. just rotate the power selector ring until the desired magnification appears adjacent to the power index dot.

(4) Adjustment and zero setting of the riflescope

Sighting through the riflescope, align the rifle with your aiming point on the target and shoot a trial round. If the bullet does not hit the aiming point, adjust the elevation and windage. as follows:

●If the bullet hits under the aiming point, turn the elevation adjustment (counter-clockwise) in the direction of the arrow marked "UP" for up as in Fig. 3-5. If the bullet hits high, turn adjustment (clockwise) in the opposite direction of the arrow marked "UP" for down.

●If the bullet hits to the right of the aiming point, turn the windage adjustment (clockwise) in the opposite direction of the arrow marked "R" for left as in Fig. 3-5. If the bullet hits to the left of the aiming point, turn adjustment (counter-clockwise) in the direction of the arrow marked "R" for right.

●After the reticle has been adjusted to the point of impacts, with the grip held with your fingers to avoid shifting of the aligned grip, turn the four grip screws around the grip counterclockwise with Allen wrench. Then lift the grip up and align the "0" with the index mark. And by securing the grip with your fingers to avoid shifting of the grip, turn the grip screws clockwise with Allen wrench until the grip in firmly secured. (Fig. 3-6)

Fig. 3-5

Fig. 3-6

Note:

- The windage and elevation scales of the riflescope 2.5-10x44 SF and 4-16x50 SF are calibrated in division of 1/4 minute of angle with a click at intervals of 1/4 minute of angle (one division).
- When adjusting the reticle to the point of aim, remember that one minute of angle equals approximately one inch (2.54 cm) at 100 yards (91.44 m). Therefore, if the impact point is two inches (5.08 cm) low and one inch (2.54 cm) right at 100 yds (91.44 m) Parallax Setting, you should adjust two minutes of angle up one minute of angle left. In case of 50 yds (45.72 m). Parallax Setting the adjusting value is double. In case of 75 yds (65.58 m) Parallax Setting is 1.5 times.

(5) Adjustable objective

The riflescope, 2.5-10x44 SF and 4-16x50 SF can be more precisely focused within the range of at least 50 yds (45.72 m)~infinity by rotating the Side Focus adjustment ring. Parallax can be eliminated and sight alignment will be accurate.

Maintenance

(1) Lens cleaning

To remove dirt of fingerprint, soak gauze of lens cleaning paper (silicon-free paper sold at camera shop) with a small quantity of absolute alcohol (available from drugstore) and lightly wipe off. Wiping with handkerchief of leather is not recommended as it is likely to damage the lens surface.
Dust may scratch the lens surface or corrode the lens.
Brush dust off using a soft oil-free brush.

(2) Scope Exterior

Use a soft dry cloth to wipe off any dirt or finger-prints that might accumulate.
It is not necessary to oil the scope's surface.

(3) Windage/Elevation Adjustments

These adjustments are permanently lubricated. Do not attempt to lubricate them. Cover with caps supplied. except when adjusting, to keep out dust and dirt.

(4) Eyepiece Ajustment

This adjustment is permanently lubricated. Do not attempt to lubricate.

(5) Power Selector Ring

No lubrication is required on the power selector ring.
Do not loosen or remove screws in power selector ring.